Rec'd PCT/PTO 2 0 DEC 2004

# PCT

### INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

| Applicant's or agent's file reference  | FOR FURTHER  | see Notification of      | Transmittal of Internatio             | nal Search Report    |  |  |  |
|--|--|--------------------------|---------------------------------------|----------------------|--|--|--|
| pct-1375   | ACTION   | (Form PCT/ISA/220        | )) as well as, where applic           | cable, item 5 below. |  |  |  |
| International application No.  | International filing date (day/month/year) (Earliest) Priority Date (day/month/year) |                          |                                       | (day/month/year)     |  |  |  |
| PCT/KR02/01186   | CT/KR02/01186 22 JUNE 2002 (22.06.2002)  |                          |                                       |                      |  |  |  |
| Applicant  |  |                          |                                       |                      |  |  |  |
| WARD ALVELDRY CO. LTD.   |  |                          | •                                     | •                    |  |  |  |
| HYUNDAI WELDING CO., LTD. et   | ai   |                          | •                                     |                      |  |  |  |
| This International search report has been prepared by this International Searching Authority and is transmitted to the applicant according |  |                          |                                       |                      |  |  |  |
| to Article 18. A copy is being transmitted to the International Bureau.  |  |                          |                                       |                      |  |  |  |
| This international search report consists of a to  | otal of 2 shee   | ets.                     |                                       |                      |  |  |  |
| It is also accompanied by a cop  | y of each prior art docume   | nt cited in this report. | ·<br>·                                | •                    |  |  |  |
| 1. Basis of the report   |  |                          | · · · · · · · · · · · · · · · · · · · |                      |  |  |  |
| a. With regard to the language, the into language in which it was filed, unles   |  |                          | f the international applic            | cation in the        |  |  |  |
| the international search was carr<br>Authority (Rule 23.1(b)).   |  |                          | national application furni            | shed to this         |  |  |  |
| b. With regard to any nucleotide and/  |  | lisclosed in the interna | ational application, the ir           | ternational search   |  |  |  |
| was carried out on the basis of the se   | •  |                          | •                                     | ,                    |  |  |  |
| filed together with the international  | •  |                          |                                       | •                    |  |  |  |
| . <u>u</u>   |  | er readable form.        |                                       |                      |  |  |  |
| furnished subsequently to this A   | •  | lable form               |                                       | •                    |  |  |  |
| the statement that the subsequen   | ·  |                          | so beyond the disclosur               | e in the             |  |  |  |
| international application as filed   |  | ience fisting does not   | go beyond the disclosure              | s in the             |  |  |  |
| the statement that the information furnished.  | on recorded in computer re   | adable form is identic   | cal to the written sequence           | e listing has been   |  |  |  |
| 2. Certain claims were found uns   | earchable (See Box I).   |                          |                                       |                      |  |  |  |
| 3. Unity of invention is lacking (S  | See Box II).   |                          |                                       |                      |  |  |  |
| 4. With regard to the title,   |  |                          |                                       | •                    |  |  |  |
| the text is approved as submitted  | by the applicant.  | •                        |                                       | • .                  |  |  |  |
| the text has been established by   | this Authority to read as i  | follows:                 |                                       |                      |  |  |  |
|  |  |                          |                                       |                      |  |  |  |
| •  |  |                          |                                       | •                    |  |  |  |
| 5. With regard to the abstract,  | _  |                          |                                       |                      |  |  |  |
| The text is approved as submitted  | by the applicant.  |                          |                                       |                      |  |  |  |
| the text has been established, acc   | ording to Rule 38.2(b), by   | this Authority as it a   | appears in Box III. The a             | applicant may,       |  |  |  |
| within one month from the date of  | of mailing of this internation   | onal search report, sub  | omit comments to this A               | athority.            |  |  |  |
| 6. The figure of the drawing to be publis  | hed with the abstract is Fi  | gure No. 2a              |                                       |                      |  |  |  |
| as suggested by the applicant.   |  | <del></del>              | None of the                           | e figures.           |  |  |  |
| because the applicant failed to su   | ggest a figure.  |                          | اجا                                   |                      |  |  |  |
| because this figure better charact   | /  |                          |                                       | *                    |  |  |  |
|  |  | •                        | -                                     |                      |  |  |  |

## INTERNATIONAL SEARCH REPORT

| A. CLASSIFICATION OF SUBJECT MATT | CLASSIFICATIO | N OF SUBJECT | MATIER |
|-----------------------------------|---------------|--------------|--------|
|-----------------------------------|---------------|--------------|--------|

IPC7 B23K 9/133

According to International Patent Classification (IPC) or to both national classification and IPC

#### FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC B23K 9/00-37/00

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the intertnational search (name of data base and, where practicable, search terms used)

### DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|-----------|--|-----------------------|
| Y         | KR10-0297164 B1 (HYUNDAI WELDING CO.) May. 18. 2001                                | 1-34                  |
| Y         | JP11-192552 A (NIPPON STEEL WELD CO.) Jul. 21. 1999                                | 9-11                  |
| Y         | JP60-82276 A (KOBE STEEL LTD) May. 10. 1985  | 1-3                   |
| Y         | JP55-30312 A (OSAKA ELECTRIC CO.) Mar. 4. 1980                                     | 7                     |
| Α         | JP7-136763 A (PARASONIC ELECRIC CO.) May. 30. 1995                                 | 1-33                  |
| <b>A</b>  | KR20-0228147 Y1 (KORYO WELDING CO.) Apr. 10. 2001                                  | 1-33                  |
| ,         |  |                       |
|           |  |                       |
|           |  |                       |

|     | Further documents are listed in the continuation of Box C.   |     | See patent family annex.   |
|-----|--|-----|--|
| 'A" | Special categories of cited documents:<br>document defining the general state of the art which is not considered | "T" | later document published after the international filing date or priority   |
| ^   | to be of particular relevance  |     | date and not in conflict with the application but cited to understand<br>the principle or theory underlying the invention          |
| E"  | earlier application or patent but published on or after the international filing date                            | "X" | document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive |
| L"  | document which may throw doubts on priority claim(s) or which is   |     | step when the document is taken alone  |

special reason (as specified) considered to involve an inventive step when the document is document- referring to an oral disclosure, use, exhibition or other combined with one or more other such documents, such combination being obvious to a person skilled in the art .

document published prior to the international filing date but later "&" document member of the same patent family than the priority date claimed

Date of the actual completion of the international search Date of mailing of the international search report 18 MARCH 2003 (18.03.2003) 18 MARCH 2003 (18.03.2003)

Name and mailing address of the ISA/KR

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